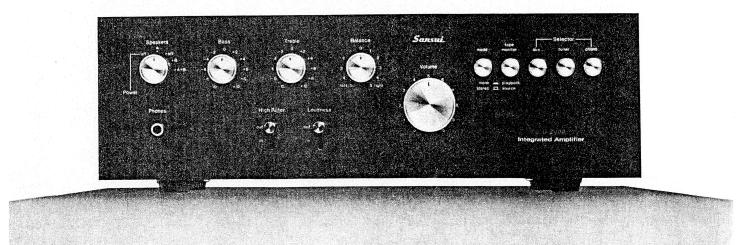
SERVICE MANUAL

INTEGRATED STEREO AMPLIFIER SANSUI AU-2900





1. SPECIFICATIONS

| POWER OUTPUT |
|--|
| Min RMS, both channels driven, from 40 to 20,000Hz, |
| with no more than 0.3% total harmonic distortion |
| 15 watts per channel into 8 ohms |
| Min RMS both channels driven, at 1,000Hz. |
| with no more than 0.3% total harmonic distortion 17 watts per channel into 8 ohms |
| LOAD IMPEDANCE8 ohms (SYSTEM-A or B) |
| POWER BANDWIDTH 40 to 20,000Hz at or below |
| rated min. RMS power |
| output and total harmonic |
| distortion |
| TOTAL HARMONIC DISTORTION |
| less than 0.3% at or below |
| rated min. RMS power out- |
| put |
| INTERMODULATION DISTORTION |
| (70Hz:7 kHz=4:1 SMPTE method) |
| less than 0.5% |
| FREQUENCY RESPONSE (at 1 watt) |
| 10 to 40,000Hz ^{+0.5} _{-2.0} dB |
| RIAA CURVE DEVIATION (PHONO) |
| +0.5dB, -0.5dB (30Hz to 15kHz) |
| DAMPING FACTORapproximately 30 at 8 ohms load |
| INPUT SENSITIVITY AND IMPEDANCE |
| (1 kHz, for rated power output) |
| PHONO |
| (Max. input capability: 170mV at 1kHz, less than |
| 0.5% total harmonic distortion) |
| TUNER130mV/50 kiloohms |
| AUX130mV/50 kiloohms |
| TAPE PLAY (pin jacks)130mV/50 kiloohms |

^{*} Design and specifications subject to change without notice for improvements.

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2. ADJUSTMENTS

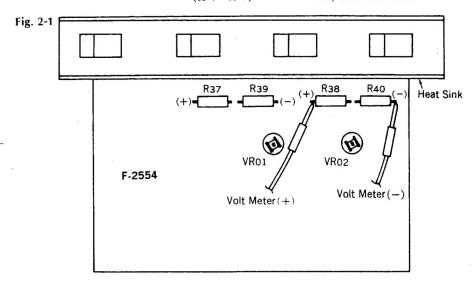
2-1. Bias Current Adjustment

Note: 1. Confirm the AC Power Supply voltage.

2. Master Volume......Minimum

3. Room Temperature18°C~28°C (65°F~83°F)

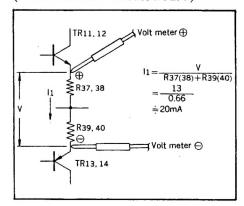
- 4. For this adjustment, run the unit for more than 3 minutes after power is switched ON.
- 5. Before this adjustment, turn VR01 and VR02 fully counterclockwise.



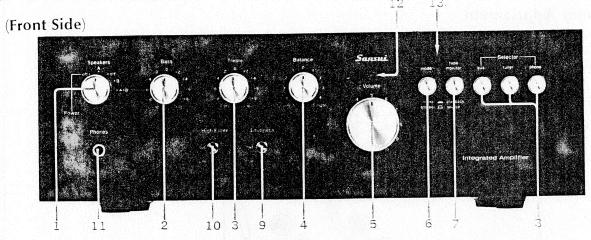
| STEP | SUBJECT | EQUIPMENT | MEASURE OUTPUT ADJUST | | ADJUST FOR |
|------|----------------------|---------------|-----------------------|----------------------------------|------------------|
| 1 | Bias Current L-CH | DC Volt meter | *1) See below | VR01 F-2554 (See Fig. 2-1) | 13mV ±1mV (20mA) |
| 2 | Bias Current R-CH | DC Volt meter | *2) See below | VR02 F-2554 (See Fig. 2-1) | 13mV ±1mV (20mA) |

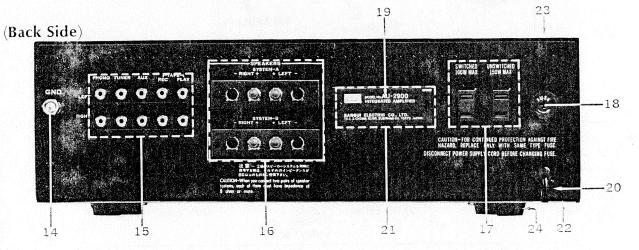
- *1) For this measurement, put the lead (+) side of volt meter to (+) side of R37 and the lead (-) side to (-) side of R39 on F-2554 as Fig. 2-1.
- *2) For this measurement, put the lead (+) side of volt meter to (+) side of R38 and the lead (-) side to (-) side of R40 on F-2554 as Fig. 2-1.

(F-2554 Driver Circuit Board)



3. OTHER PARTS





Parts List

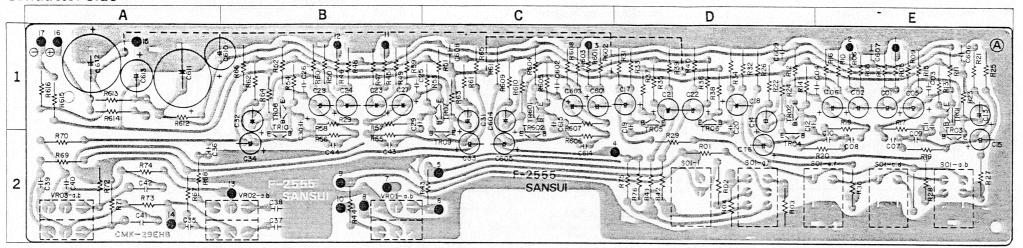
| Parts No. | Stock No. | Description |
|-----------|-------------|--|
| | (5318610 | S-11 Type Knob, SPEAKERS |
| 1 | (1101550,1 | Rotary Switch Y-1-4-5, SPEAKERS |
| _ | (5318610 | S-11 Type Knob, BASS VOLUME |
| 2 | 1015080,1 | 100k $\Omega(A)	imes 2$ BASS VOLUME |
| 3 | (5318610 | S-11 Type Knob, TREBLE VOLUME |
| 3 | (1015080, 1 | 100k $\Omega(A)\!	imes\!2$ treble volume |
| | [5318610 | S-11 Type Knob, BALANCE VOLUME |
| 4 | 1015070,1 | 100k $\Omega(M.N) \times 2$ BALANCE VOLUME |
| _ | (5318630 | L-4 Type Knob, VOLUME |
| 5 | [1011070,1 | 250 k $\Omega(B) \times 2$, VOLUME |
| | [5326500 | Push Button (B) |
| 6 | 5396190 | Ring, Push Button |
| | 1131120 | Push Switch, Mode |
| | (5326500 | Push Button (B) |
| 7 | 5396190 | Ring, Push Button |
| | 1131120 | Push Switch, Tape Monitor |
| | (5326500 | Push Button (B) |
| 8 | 5396190 | Ring, Push Button |
| | 1131120 | Push Switch, Selector |
| | (5326520 | E-3 Type Knob, Lever Switch |
| 9 | 5047470 | Masking, Lever Switch |
| | 1170340 | SX15-1 Lever Switch, LOUDNESS |
| | (5326520 | E-3 Type Knob, Lever Switch |
| 10 | 5047470 | Masking, Lever Switch |
| | 1170350 | SX15-2 Lever Switch, HIGH FILTER |
| | | |

| Parts No. | Stock No. | Description |
|------------------|--------------|-------------------------------|
| 11 2430190 | | Headphone Jack |
| 12 | 7726080 | L.E.D Ass'y |
| 13 | 7007310 | Front Panel |
| 14 | 2230051 | Ground Terminal |
| 15 | 2200350 | 10P Input Terminal |
| 16 | 2210200 | Speaker Terminal |
| 17 | 2450060 | AC Outlet |
| | (0431220 | 1.0A 250V (AC 220~240V) Power |
| 18 | 0431230 | 1.5A 250V (AC 100~120V)) Fuse |
| | 2300060 | Fuse Holder |
| 19 | 5388900 | Name Plate |
| 20 | 3800261,2 | Power Cord |
| | (2410830 | Voltage Selector, Plug |
| 21 | 2410091 | Voltage Selector, Socket |
| 22 | 5058580 | Bottom Plate |
| 23 | 5006580 | Bonnet |
| 24 | 5516940 | Foot |
| T701 | 4002410 | Power Transformer |
| F883, I | F884 0433260 | Speaker Fuse, 3.5A 250V |
| F881, I | F882 0431270 | AC Fuse, 4A 250V |
| C703 | 0659801 | 0.01 µF 150V C.C. |
| C701) C702) | 0657473 | 0.047μF 50V C.C. |
| R701) R702 | 0104221 | 220Ω 1W C.R. |
| | | |



4. PARTS LOCATION AND PARTS LIST

4-1. F-2555 Tone Control Circuit Board (Stock No. 7561431) Conductor Side



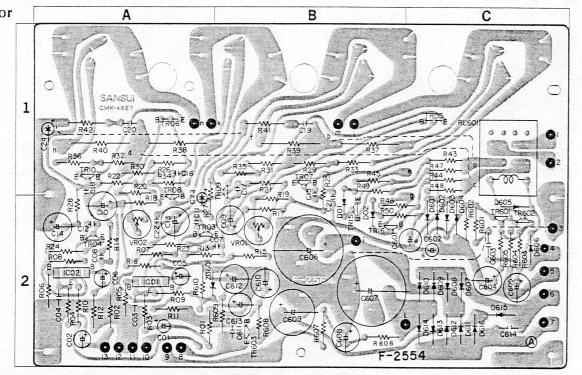
4-2. F-2554 Driver Circuit Board (Stock No. 7571371)

Conductor Side

(

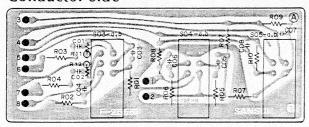
(

(1



4-3. F-2556 Switch Circuit Board (Stock No. 7594041)

Conductor Side



Parts List (F-2556)

| Parts No. | Stock No. | | Descr | iption |
|-----------|-----------|--------|----------------|-----------|
| C01, 02 | 0621561 | 560 pF | 50V | P.C. |
| S03 | 1170340 | S×15-1 | } Lever Switch | |
| S04 | 1170350 | S×15-2 | Leve | er Switch |

Parts List (F-2554)

| Parts No. | Stock No. | Description | Position |
|-----------|------------|---------------------------------------|-------------|
| TR03, 04 | 0306370, 1 | 2SC1175V10(D, E) \ | 2 A |
| TR05, 06 | 0305731 | 2SC711 (E) | 1C.1A |
| TR07, 08 | 0305930, 1 | 2SC1211 (C, D) | 1 B . 1, 2A |
| TR09, 10 | 0300310,1 | 2SA697 (C, D) Transistor | 1,2B. 1 A |
| TR11, 12 | 0308411,2 | 2SD314 (D, E) | |
| TR13, 14 | 0303420, 1 | 2SB508 (D, E) | |
| | | 2SC1364 (7, 8) | 2 B |
| IC01, 02 | 0360290, 1 | 2SA798 (F, G) | 2 A |
| D607 | 0310340 | 10D1 (1S2226)) | 2 C |
| D609 | 0310340 | 10D1 (1S2226) | 2 C |
| D611 | 0310340 | 10D1 (1S2226) | 2 C |
| D613 | 0310340 | 10D1 (1S2226) Diode | 2 C |
| D615 | 0310340 | 10D1 (1S2226) | 2 C |
| D616 | 0310340 | 10D1 (1S2226)) | 2 C |
| ZD601 | 0315970 | EQA01-13R Zener Diode | 2 A , B |
| C606 | 0549007 | 3300μF) 50V 5.0 | 2 B |
| C607 | 0549007 | 3300μF 50V E.C. | 2 B |
| C614 | 0655103 | 10000 pF 500V C.C. | 2 C |
| R37, 38 | 0132338 | 0.33Ω) | 1 B . 1 A |
| R39, 40 | 0132338 | 0.33Ω 2 W Ce.R. | 18.1A |
| R41,42 | 0210479 | 4.7Ω ½W M.C. | 1B.1A |
| R901 | 0103182 | 1.8 k Ω $\frac{1}{4}$ W C.R. | |
| VR01,02 | 1035050 | 470Ω Semi-Variable Resistor | 2 B . 2 A |

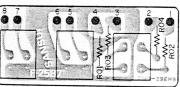
^{*}Value and Stock No. of most Resistors and Capacitors are shown in Common Parts List attached.

Parts List (F-2555)

| Parts No. | Stock No. | Description | Position |
|-----------|------------|------------------------------|-----------|
| TR01,02 | 0300470, 1 | 2SA726 (W) (F, G) \ | 1 E . 1 D |
| TR03, 04 | 0306070,1 | 2SC1313 (F) | 2 E . 2 D |
| TR05, 06 | 0300470,1 | 2SA726 ((F, G) Transistor | 10 |
| TR07, 08 | 0300470,1 | 2SA726 (W) (F, G) | 1 C . 1 B |
| T R09, 10 | 0306070,1 | 2SC1313 (F, G) | 2 C . 2 B |
| ∨R01 | 1015070,1 | 100kΩ (M, N)×2 | 2 B |
| V R02 | 1015080, 1 | $100k\Omega$ (A) \times 2 | 2 A , B |
| V Ros | 1015080, 1 | 100k Ω (A) \times 2 | 2 A |
| Soi | 1131120 | SUB54 Push Switch | 2 D , E |

4-4. F-2587 Connector Circuit Board (Stock No. 7594051)

Conductor Side



4-5. Figures

| SEMICONDUCTORS | | COMPLETE CIRCUIT BOARD | SEMICONDUCTORS | | COMPLETE CIRCUIT BOARD | |
|---|-------|------------------------------|----------------|-------|------------------------------|--|
| 2SA726 2SC1313 2SC711 2SC1211 2SA697 2SC1175 | B B B | F-2555 F-2554 | 2SC1364 | B B B | F-2554 | |
| 2SD314 2SB508 | B E | F-2554 | 2SA798 | B.C. | F-2554 | |

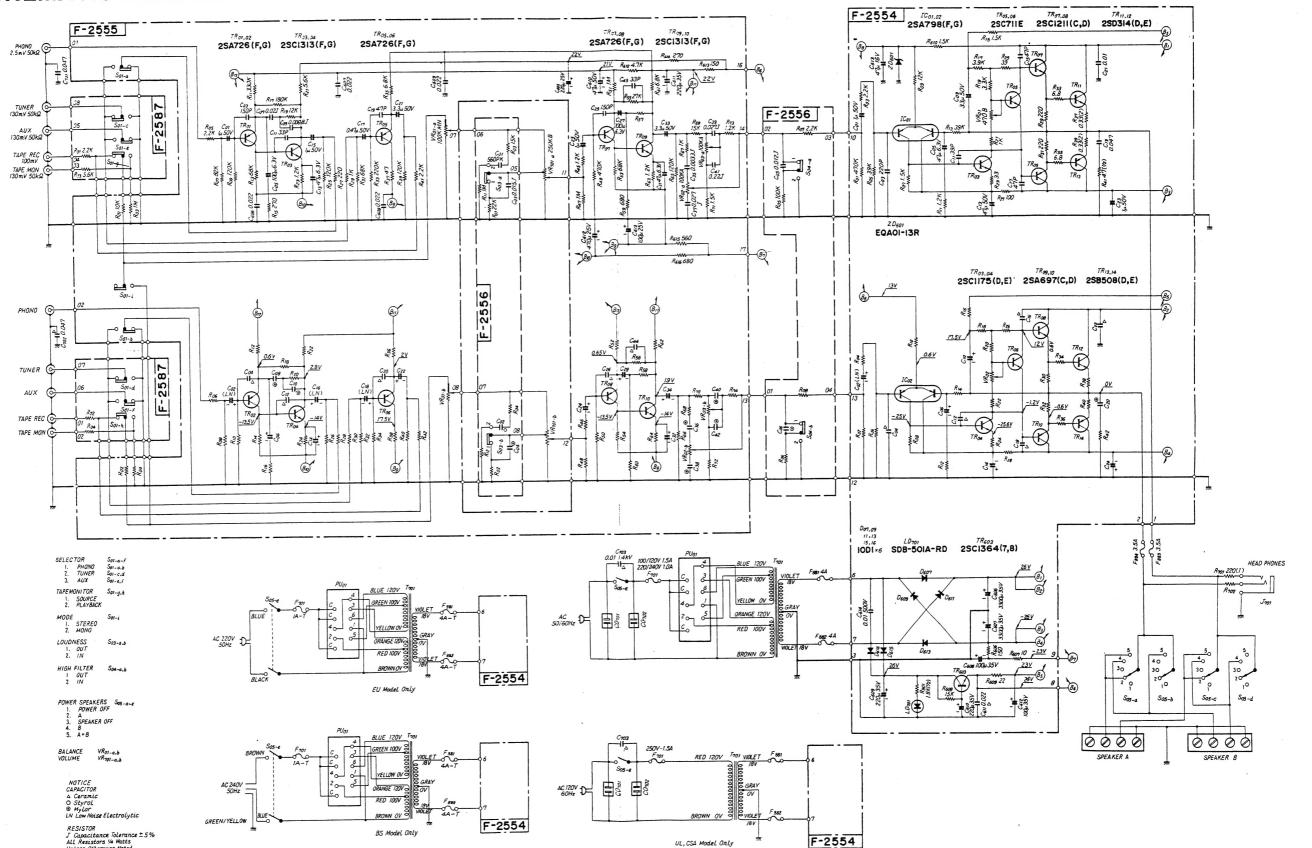
| | | ==Abbre | viation | s= | |
|-------|---|------------------------|---------|----|-----------------------|
| C.R. | : | Carbon Resistor | BPF | ٠. | Bi-Polar Electrolytic |
| S.R. | : | Solid Resistor | | • | Capacitor |
| Ce.R. | : | Cement Resistor | C.C. | | Ceramic Capacitor |
| M.R. | | Metallized Film | Mi.C. | | Mica Capacitor |
| | | Resistor | O.C. | | Oil Capacitor |
| M.C. | : | Mylar Capacitor | P.C. | | Polystyrene Capacitor |
| E.C. | | Electrolytic Capacitor | T.C. | | Tantalum Capacitor |

5. SCHEMATIC DIAGRAM

*La présentation et les spécifications sont susceptibles d'êter modifiées sans préavis par suites d'améliorations éventuelles.
*Anderungen, die dem technischen Fortschritt dienen, bleiben vorbehalten.

()

* Design and specifications subject to change without notice for improvements.



COMMON PARTS LISTS FOR RESISTORS & CAPACITORS ONLY

Replacement Parts, most resistors & capacitors are common to Sansui models unless specified otherwise, therefore these resistors and capacitors in this list are not shown in parts lists of Service Manual. When replacing these parts, confirm the value, wattage (or capacity) and tolerance referring to this list and Schematic Diagram for easier check.

When ordering parts, use the parts name and Stock No. referring to Parts Lists.

♦TYPES OF COMMON RESISTORS & CAPACITORS

(Resistors)

Carbon resistor 1/4W Solid resistor 1/4 W

(Capacitors)

Ceramic capacitor

- 1) 50V Standard type
- 2) 50V Temperature compensation type

Mylar capacitor (50V)

Electrolytic capacitor (Vertical type)

- 1) Non-polar type (6.3V~80V)
- 2) Polar type

(6.3V~80V)

3) Polar type

(25V &50V)

(low noise)

♦Resistors

—How to read color cord——

3 Multiplier 4 Tolerance (%)

For example:

1. Brown

2. Red

3. Orange

4. Silver

 $12 \times 10^{3} (\Omega) \pm 10\%$

12kΩ ±10%

| Color | 1 | 2 | 3 | 4 |
|-----------|---|---|-----------------|------|
| Black | 0 | 0 | 10° | |
| Brown | 1 | 1 | 10 ¹ | |
| Red | 2 | 2 | 10² | |
| Orange | 3 | 3 | 10³ | |
| Yellow | 4 | 4 | 104 | |
| Green | 5 | 5 | 105 | |
| Blue | 6 | 6 | 10 ⁸ | |
| Purple | 7 | 7 | | |
| Gray | 8 | 8 | | |
| White | 9 | 9 | | |
| Gold | | | 10-1 | ±5% |
| Silver | | | 10-2 | ±10% |
| Colorless | | | | ±20% |



▶RESISTORS

| alue(Ω) | Stock No. |
|-----------------------|----------------------|
| | tors (Standard tyde) |
| 9 mm - | 生的有 |
| Standard ty | pein 🛏 🌘 |
| ELR and leading type. | |
| 1.5 | 0107159 |
| 1.8 | 0107189 |
| | 0107000 |

| | 장님이 보는 없는 얼마나 얼마나 나는 그 그 그 | |
|----------|----------------------------|--|
| Value(Ω) | Stock No. | |
| 68. 0 K | 0107683 | |
| 82. 0 K | 0107823 | |
| 100.0K | 0107104 | |
| 120.0K | 0107124 | |
| 150.0K | 0107154 | |
| 180.0K | 0107184 | |
| 220. 0 K | 2107224 | |
| 270. 0 K | 0107274 | |
| 330. 0 K | 0107334 | |
| 390.0 K | 0107394 | |
| 470.0 K | 0107474 | |
| 560.0K | 0107564 | |
| 680. 0 K | 0107684 | |
| 820.0 K | 0107824 | |
| 1.0M | 0107105 | |

| Value(Ω) | Stock No. | |
|----------|-----------|--|
| 8. 2 K | 0240822 | |
| 10.0K | 0240103 | |
| 12.0 K | 0240123 | |
| 15.0 K | 0240153 | |
| 18.0K | 0240183 | |
| 22.0 K | 0240223 | |
| 27. 0 K | 0240273 | |
| 33.0 K | 0240333 | |
| 39.0 K | 0240393 | |
| 47.0 K | 0240473 | |
| 56.0 K | 0240563 | |
| 68. 0 K | 0240683 | |
| 82. 0 K | 0240823 | |
| 100.0K | 0240104 | |
| 120.0K | 0240124 | |
| 150.0K | 0240154 | |
| 180.0K | 0240184 | |
| 220.0K | 0240224 | |
| 270.0K | 0240274 | |
| 330.0K | 0240334 | |
| 390. 0 K | 0240394 | |
| 470. 0 K | 0240474 | |
| 560.0K | 0240564 | |
| 680.0K | 0240684 | |
| 820.0K | 0240824 | |
| 1.0M | 0240105 | |

| 560.0 | 0113561 | |
|----------|-----------|--|
| 680.0 | 0113681 | |
| 820.0 | - 0113821 | |
| 1.0K | 0113102 | |
| 1.2K | 0113122 | |
| 1.5K | 0113152 | |
| 1.8K | 0113182 | |
| 2. 2 K | 0113222 | |
| 2.7 K | 0113272 | |
| 3.3 K | 0113332 | |
| 3.9 K | 0113392 | |
| 4.7 K | 0113472 | |
| 5. 6 K | 0113562 | |
| 6.8K | 0113682 | |
| 8. 2 K | 0113822 | |
| 10.0K | 0113103 | |
| 12.0K | 0113123 | |
| 15.0 K | 0113153 | |
| 18.0 K | 0113183 | |
| 22. 0 K | 0113223 | |
| 27. 0 K | 0113273 | |
| 33. 0 K | 0113333 | |
| 39.0 K | 0113393 | |
| 47. 0 K | 0113473 | |
| 56.0K | 0113563 | |
| 68.0K | 0113683 | |
| 82. 0 K | 0113823 | |
| 100.0 K | 0113104 | |
| 120. 0 K | 0113124 | |
| 150.0 K | 0113154 | |
| 180. 0 K | 0113184 | |
| 220. 0 K | 0113224 | |
| 270.0 K | 0113274 | |
| 330.0 K | 0113334 | |
| 390. 0 K | 0113394 | |
| 470. 0 K | 0113474 | |
| 560.0 K | 0113564 | |
| 680. 0 K | 0113684 | |
| 820. 0 K | 0113824 | |
| 1. 0M | 0113105 | |
| 1.2M | 0113125 | |
| 1.5M | 0113155 | |
| 1.8M | 0113185 | |
| 2. 2M | 0113225 | |
| 2. 7M | 0113275 | |
| 3. 3M | 0113335 | |
| 3. 9M | 0113395 | |
| 4.7M | 0113475 | |
| 5. 6M | 0113565 | |
| J. 0101 | 5110000 | |
| | | |

Value(Ω)

Stock No.

| Carbon re | sistor (Miniature | type |
|-------------------|-------------------|------|
| ⅓W To | lerance ±5% | |
| \rightarrow 100 | Carbon | |
| - 1 | | |
| | Solid | |
| | um —— | |
| | | 2000 |
| A 7 | 0240479 | |

| The second secon | The same of the first of the same of the s |
|--|--|
| 4. 7 | 0240479 |
| 5. 6 | 0240569 |
| 6. 8 | 0240689 |
| 8. 2 | 0240829 |
| 10.0 | 0240100 |
| 12.0 | 0240120 |
| 15.0 | 0240150 |
| 18.0 | 0240180 |
| 22. 0 | 0240220 |
| 27.0 | 0240270 |
| 33. 0 | 0240330 |
| 39. 0 | 0240390 |
| 47.0 | 0240470 |
| 56. 0 | 0240560 |
| 68.0 | 0240680 |
| 82. 0 | 0240820 |
| 100.0 | 0240101 |
| 120.0 | 0240121 |
| 150.0 | 0240151 |
| 180.0 | 0240181 |
| 220. 0 | 0240221 |
| 270.0 | 0240271 |
| 330.0 | 0240331 |
| 390.0 | 0240391 |
| 470.0 | 0240471 |
| 560.0 | 0240561 |
| 680.0 | 0240681 |
| 820. 0 | 0240821 |
| 1.0K | 0240102 |
| 1.2K | 0240122 |
| 1.5K | 0240152 |
| 1.8K | 0240182 |
| 2. 2 K | 0240222 |
| 2.7 K | 0240272 |
| 3.3 K | 0240332 |
| 3.9 K | 0240392 |
| 4.7 K | 0240472 |
| 5. 6 K | 0240562 |
| 6.8K | 0240682 |
| | |

| Solid resistor | | | | |
|----------------------------------|--------------|--|--|--|
| | erance ±5% | | | |
| - | | | | |
| *Use resistor with tolerance ±5% | | | | |
| in lieu of or | ne with ±10% | | | |
| 2. 2 | 0113229 | | | |
| 2. 7 | 0113279 | | | |
| 3. 3 | 0113339 | | | |
| 3.9 | 0113399 | | | |
| 4. 7 | 0113479 | | | |
| 5. 6 | 0113569 | | | |
| 6.8 | 0113689 | | | |
| 8. 2 | 0113829 | | | |
| 10.0 | 0113100 | | | |
| 12.0 | 0113120 | | | |
| 15.0 | . 0113150 | | | |
| 18.0 | 0113180 | | | |
| 22. 0 | 0113220 | | | |
| 27. 0 | 0113270 | | | |
| 33. 0 | 0113330 | | | |
| 39. 0 | 0113390 | | | |
| 47.0 | 0113470 | | | |
| 56. 0 | 0113560 | | | |
| 68. 0 | 0113680 | | | |
| 82. 0 | 0113820 | | | |
| 100.0 | 0113101 | | | |
| 120. 0 | 0113121 | | | |
| 150.0 | 0113151 | | | |
| 180.0 | 0113181 | | | |
| 220. 0 | 0113221 | | | |
| 270.0 | 0113271 | | | |
| 330. 0 | 0113331 | | | |
| 390. 0 | 0113391 | | | |
| 470.0 | 0113471 | | | |

| and the second second | Contract to the second of the second of | |
|-----------------------|---|--|
| 1.5 | 0107159 | |
| 1.8 | 0107189 | |
| 2. 2 | 0107229 | |
| 2.7 | 0107279 | |
| 3. 3 | 0107339 | |
| 3.9 | 0107399 | |
| 4.7 | 0107479 | |
| 5. 6 | 0107569 | |
| 6.8 | 0107689 | |
| 8. 2 | 0107829 | |
| 10.0 | 0107100 | |
| 12.0 | 0107120 | |
| 15.0 | 0107150 | |
| 18.0 | 0107180 | |
| 22. 0 | 0107220 | |
| 27. 0 | 0107270 | |
| 33.0 | 0107330 | |
| 39. 0 | 0107390 | |
| 47.0 | 0107470 | |
| 56. 0 | 0107560 | |
| 68. 0 | 0107680 | |
| 82. 0 | 0107820 | |
| 00.0 | 0107101 | |
| 20.0 | 0107121 | |
| 50.0 | 0107151 | |
| 80.0 | 0107181 | |
| 20.0 | 0107221 | |
| 70.0 | 0107271 | |
| 30.0 | 0107331 | |
| 90.0 | 0107391 | |
| 70.0 | 0107471 | |
| 60.0 | 0107561 | |
| 80. 0 | 0107681 | |
| 20.0 | 0107821 | |
| 1.0 K | 0107102 | |
| 1.5 K | 0107152 | |
| 1.8K | 0107182 | |
| 2. 2 K | 0107222 | |
| 2.7 K | 0107272 | |
| 3.3 K | 0107332 | |
| 3.9 K | 0107392 | |
| 4.7 K | 0107472 | |
| 5. 6 K | 0107562 | |
| 6.8 K | 0107682 | |
| 8. 2 K | 0107822 | |
| 10.0 K | 0107103 | |
| 12.0 K | 0107123 | |
| 15.0 K | 0107153 | |
| 18.0 K | 0107183 | |
| 22.0 K | 0107223 | |
| 27.0 K | 0107273 | |
| 33.0 K | 0107333 | |
| 20 0 V | 0107303 | |

39,0 K

47.0 K

56.0 K

0107393

0107473

0107563



♦CAPACITORS TOLERANCE (%)

| Ī | G | J | К | L | M |
|---|----|----|-----|-----|-----|
| | ±2 | ±5 | ±10 | ±15 | ±20 |

| Value (pF) | Stock No. | Indica- tion | | |
|--|------------------------|-------------------------|--|--|
| Ceramic capacitor 1) 50V Standard type #No color indication on top 1.5pf For example 1.5pf | | | | |
| | М | | | |
| 1 (±0.5p | of) 0657109 | <u>1</u> | | |
| 1(±0.5p | oF) 0657109 0657159 | <u>1</u> 1. <i>5</i> | | |
| | | <u>1</u> 1. 8 | | |
| 1.5 | 0657159 | <u>1</u> 1. 8 | | |
| 1.5 2 | 0657159 0657209 | <u>1</u> | | |

| en i dilika kana | L. | |
|-----------------------|-----------|-----------------------|
| 1(±0.5pF) | 0657109 | 1 |
| 1.5 | 0657159 | 1.5 |
| 2 | 0657209 | 2 3 4 5 6 |
| 3 | 0657309 | 3 |
| 4 | 0657409 | 4 |
| 5 | 0657509 | <u>5</u> |
| 6 | 0657609 | <u>6</u> |
| 7 | 0657709 | 7 |
| 8 | 0657809 | <u>8</u> |
| 9 | 0657909 | 9 |
| 10 | 0657100 | 10 |
| 12(±10%) | 0657120 | 12 |
| 15 | 0657150 | 15 |
| 18 | 0657108 | 18 |
| 22 | 0657220 | 22 |
| 27 | 0657270 | 27 |
| 33 | 0657330 | 33 |
| 39 | 0657390 | 39 |
| 47 | 0657470 | 47 pF |
| 56 | 0657560 | <u>56</u> pF |
| 68 | 0657680 | <u>68</u> pF |
| 82 | 0657820 | <u>82</u> pF |
| 100 | 0657101 | 100 pF |
| 120 | 0657121 | 120 pF |
| 150 | 0657151 | 150 pF |
| 180 | 0657181 | 180 pF |
| 220 | 0657221 | 220 pF |
| 270 | 0657271 | 270 pF |
| 330 | 0657331 | 330 pF |
| 390 | 0657391 | 390 pF |
| 470 | 0657471 | 470 pF |
| $1000(^{+80}_{-20}\%$ |) 0657102 | $0.001 \mu F$ |
| 2200 | 0657222 | $0.0022 \mu F$ |
| 4700 | 0657472 | 0.0047μ F |
| 0000 | 0657103 | 0.01μ F |
| 22000 | 0657223 | $0.022 \mu F$ |
| 47000 | 0657473 | 0.047μ F |
| | | |

| 2) 50V Temperature Compensation | | | | |
|---------------------------------|---------|------|--|--|
| | Black | type | | |
| 1.0 | 0669014 | 1 | | |
| 1.5 | 0669021 | 1.5 | | |
| 2. 2 | 0669003 | 2. 2 | | |
| 2. 7 | 0669203 | 2.7 | | |
| 3. 9 | 0669002 | 3. 9 | | |
| 4.7 | 0669020 | 4.7 | | |
| 6.8 | 0669018 | 6.8 | | |
| 8. 2 | 0669005 | 8. 2 | | |
| 10.0 | 0661100 | 10 | | |
| 12.0 | 0661120 | 12 | | |
| 15.0 | 0661150 | 15 | | |
| 18.0 | 0661180 | 18 | | |
| 22. 0 | 0661220 | 22 | | |
| 25. 0 | 0661250 | 25 J | | |

| Value (pF) | Stock No. | lndica tion | |
|------------|-----------|-------------------|--|
| 27. 0 | 0661270 | 27 J | |
| 33. 0 | 0661330 | <u>33</u> J | |
| 39. 0 | 0661390 | $\frac{39}{CM}$ J | |
| 47. 0 | 0661470 | 47 CM J | |
| 56. 0 | 0661560 | $\frac{56}{CM}$ J | |
| 68. 0 | 0661680 | 68 CM J | |
| 82. 0 | 0661820 | $\frac{82}{CM}$ J | |
| 100.0 | 0661101 | 101 J | |

| 6.8 | 0669006 | 6.8 |
|------|---------|------|
| 16.0 | 0662160 | 16 |
| 17.0 | 0662170 | 17 |
| 19.0 | 0669279 | 19 |
| 20.0 | 0662200 | 20 |
| 27.0 | 0669282 | 27 J |

| 16.0 | 0663160 | 16 |
|------|---------|----|
| 17.0 | 0663170 | 17 |
| 20.0 | 0669305 | 20 |
| 22.0 | 0669306 | 22 |

| | Yellow | |
|------|---------|----|
| 10.0 | 0664100 | 10 |
| 12.0 | 0669322 | 12 |

| | H | |
|------|---------|-----|
| 6. 8 | 0669343 | 6.8 |
| 12.0 | 0666347 | 12 |
| 17.0 | 0669352 | 17 |
| 18.0 | 0669019 | 18 |
| | | |

| 6.8 | 0669368 | 6.8 |
|------|---------|------|
| 10.0 | 0669370 | . 10 |
| 12.0 | 0669382 | 12 |
| 15.0 | 0669383 | 15 |

| | 1.1 | allina - |
|-------|---------|----------|
| 6.8 | 0669393 | 6.8 |
| 8. 2 | 0669015 | 8 |
| 10.0 | 0669016 | 10 |
| 33. 0 | 0669408 | 33 |
| 39.0 | 0669407 | 39 |

| Value (μF) | Stock No. | w.v. |
|----------------|---------------------------------|------------|
| Mylar cap | acitor citor with letter J(± | 5%) |
| in lieu of | one with $K(\pm 10\%)$ | |
| IS N | Constant Val | ue |
| | Work Voltage | Value |
| → 15×1 -0.1 | 0°=150,000PF 5μF(±5%, 50 V) | |
| Constant 000 | Work Voltage Tolerance | e value |
| 0.00 | 68μF(±10%, 50° | v) |

| → 4 00 | 68µF(±10%, 5 | nV) |
|-----------------|--------------------|-----|
| 0.00 | 68#1 (±10%, 5 | |
| 0. 001 | 0600106 | 50V |
| 0. 01 | 0600107 | |
| 0.1 | 0600108 | |
| 0.001 | 0600116 | |
| 0.011 | 0600117 | |
| 0.11 | 0600118 | |
| 0.0012 | 0600126 | |
| 0.012 | 0600127 | |
| 0.12 | 0600128 | |
| 0.0013 | 0600136 | |
| 0.013 | 0600137 | |
| 0.13 | 0600138 | |
| 0.0015 | 0600156 | |
| 0.015 | 0600157 | |
| 0.15 | 0600158 | |
| 0.0016 | 0600166 | |
| 0.016 | 0600167 0600168 | |
| 0.16 | 0600186 | |
| 0.0018 | 0600187 | |
| 0.018 | 0600187 | |
| 0.18 | 0600100 | |
| 0. 002 0. 02 | 0600207 | |
| 0. 02 | 0600207 | |
| 0.002 | 0600226 | |
| 0.022 | 0600227 | |
| 0. 22 | 0600228 | |
| 0.0024 | 0600246 | |
| 0.024 | 0600247 | |
| 0.0027 | 0600276 | |
| 0. 027 | 0600277 | |
| 0. 27 | 0600278 | |
| 0.003 | 0600306 | |
| 0. 03 | 0600307 | |
| 0.0033 | 0600336 | |
| 0.033 | 0600337 | |
| 0.33 | 0600338 | |
| 0.0036 | 0600366 | |
| 0.036 | 0600367 | |
| 0.0039 | 0600396 | |
| 0.039 | 0600397 | |
| 0.39 | 0600398 | |
| 0.004 | 0600406 | |
| 0.04 | 0600407 | |
| 0.0043 | 0600436 | |
| | | |

0.043

0. 0047 0. 047 0600437 0600476

0600477



▶CAPACITORS

| PUALY | CHORS | | | | | | | | | |
|-----------------------------|--------------|-----------|------------|-----------|------|------------|-----------|------|------------|-----------|
| Value (µF) | Stock No. | w.v. | Value (μF) | Stock No. | w.v. | Value (μF) | Stock No. | w.v. | Value (μF) | Stock No. |
| 0.47 | 0600478 | 50 V | 10.0 | 0533100 | 25 V | 4.7 | 0513479 | 25 V | 0. 68 | 0519111 |
| C 0005 | 0600505 | | 100.0 | 0533101 | | | | | | |
| 0.005 | 0600506 | | 22. 0 | 0533220 | | 100.0 | 0514101 | 35 V | | |
| 0.05 | 0600507 | | 220.0 | 0533221 | | 1000.0 | 0514102 | | | |
| ი. 0051 | 0600516 | | 2. 2 | 0533229 | | 220.0 | 0514221 | | | |
| 0. 051 | 0600517 | | 33.0 | 0533330 | | 2200.0 | 0514222 | | | |
| 0. 0056 | 0600566 | | 3, 3 | 0533339 | | 330.0 | 0514331 | | | |
| 0.056 | 0600567 | | 47.0 | 0533470 | | 3. 3 | 0514339 | | | |
| 0.006 | 0600606 | | 4. 7 | 0533479 | | 470.0 | 0514471 | | | |
| 0.06 | 0600607 | | 68. 0 | 0533680 | | | | | | |
| 0.0062 | 0600626 | | | | | 10.0 | 0515100 | 50 V | | |
| 0.062 | 0600627 | | 10.0 | 0535100 | 50 V | 100.0 | 0515101 | | | |
| 0. 0068 | 0600686 | | 100.0 | 0535101 | | 1000.0 | 0515102 | | | |
| 0.068 | 0600687 | | 1.0 | 0535109 | | 1.0 | 0515109 | | | |
| 0.0075 | 0600756 | | 22. 0 | 0535220 | | 220.0 | 0515221 | | | |
| 0.075 | 0600757 | | 2. 2 | 0535229 | | 2. 2 | 0515229 | | | |
| 0.008 | 0600806 | | 33.0 | 0535330 | | 33.0 | 0515330 | | | |
| 0. 08 | 0600807 | | 3. 3 | 0535339 | | 330.0 | 0515331 | | | |
| 0.00082 | 0600825 | | 47. 0 | 0535470 | | 3. 3 | 0515339 | | | |
| 0.0082 | 0600826 | | 0. 47 | 0535478 | | 47.0 | 0515470 | | | |
| 0.082 | 0600827 | | 4.7 | 0535479 | | 470.0 | 0515471 | | | |
| 0.00091 | 0600915 | | 68. 0 | 0535680 | | 4.7 | 0515479 | | | |
| 0.0091 | 0600916 | | | | | | | | | |
| 0.091 | 0600917 | | 4. 7 | 0539001 | 80 V | 100.0 | 0516101 | 63 V | | |
| | | | | | | 22. 0 | 0516220 | | | |
| Mark Control of the Control | | 0-100-co | | | | 220.0 | 0516221 | | | |
| Electroly | ic capacitor | -14 | | | | 330.0 | 0516331 | | | |
| | (Vertic | cal type) | | | | | | | | |

| 100000 | (Vertical | typ |
|-----------------------------|-----------|--------------------------|
| I) Non-polar | type | ωu. |
| *There are in | AR or NP. | 230 230 250 450 |
| ☆There are t | | n I |
| color, Gray, Black arour | | |

| | \$20 | | |
|----------------------|------------|---------|-------|
| 10. | | 0530100 | 6.3 V |
| 100 | | 0530101 | |
| 1000 | . 0 | 0530102 | |
| 22 | | 0530220 | |
| 220 | . 0 | 0530221 | |
| 33 | 3 T. 10 | 0530330 | |
| 330 | 7.7 | 0530331 | |
| 47 | 100 | 0530470 | |
| 470 | . 0 | 0530471 | |
| 100 | . 0 | 0531101 | 10 V |
| 22 | . 0 | 0531220 | |
| 220 | . 0 | 0531221 | |
| 33 | . 0 | 0531330 | |
| 330 | . 0 | 0531331 | |
| 3 | . 3 | 0531339 | |
| 47 | . 0 | 0531470 | |
| 470 | . 0 | 0531471 | |
| 68 | . 0 | 0531680 | |
| 10 | . 0 | 0532100 | 16 V |
| 100 | . 0 | 0532101 | |
| 22 | . 0 | 0532220 | |
| 220 | . 0 | 0532221 | |
| 33 | . 0 | 0532330 | |
| 330 | . 0 | 0532331 | |
| 3 | . 3 | 0532339 | |
| 47 | . 0 | 0532470 | |
| 470 | . 0 | 0532471 | |
| 11 11 11 11 11 11 11 | - | | |

0532479

0532680

4. 7

68.0

| Polar type | *There are of colors, or Black a | Blue, Gray |
|-------------|--|------------|
| # DESK | | SANCE. |
| LLIQUES CON | | |
| 100.0 | 0510101 | 6.3 V |
| 1000.0 | 0510102 | |
| 220.0 | 0510221 | |
| 330.0 | 0510331 | |
| 47.0 | 0510470 | |
| 470.0 | 0510471 | |
| 100.0 | 0511101 | 10 V |
| 1000.0 | 0511102 | |
| 220.0 | 0511221 | |
| 33. 0 | 0511330 | |
| 330.0 | 0511331 | |
| 47.0 | 0511470 | |
| 10.0 | 0512100 | 16 V |
| 100.0 | 0512101 | |
| 1000.0 | 0512102 | |
| 220.0 | 0512221 | |
| 33.0 | 0512330 | |
| 330.0 | 0512331 | |
| 47.0 | 0512470 | |
| 470.0 | 0512471 | |
| 10.0 | 0513100 | 25 V |
| 100.0 | 0513101 | |
| 1000.0 | 0513102 | |
| 000 0 | | |

0513221

0513330

0513331

0513470

0513471

220.0

33. 0

330.0

47.0

470.0

| Real Control of the C | | |
|--|----------------|-------|
| 22.0 | 0529401 | 100 V |
| 100.0 | 0519402 | |
| 2. 2 | 0519403 | |
| 10.0 | 0519404 | |
| 2200. 0 | 0519901 | 18 V |
| 47.0 | 0519902 | 80 V |
| 100.0 | 0519903 | |
| 220. 0 | 0519904 | |
| Polar typ | ie (Low noise) | |
| Section 1 | _ 🕀 | |
| | Orange | only |
| | رز شرایان 🖰 🌊 | 14 |
| 10.0 | 0519001 | 25 V |
| 3. 3 | 0519002 | |
| 1.0 | 0519101 | 50 V |
| 3. 3 | 0519102 | |
| 0.47 | 0519103 | |
| 1.5 | 0519104 | |
| 2. 2 | 0519105 | |
| 4.7 | 0519106 | |
| 6.8 | 0519107 | |
| 10.0 | 0519108 | |
| 0. 22 | 0519109 | |
| | 0317107 | |

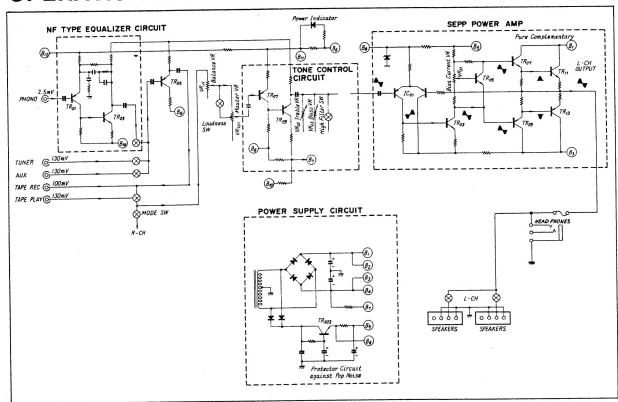
| | 0515470 | 47.0 |
|-------|---------|---------|
| | 0515471 | 470.0 |
| | 0515479 | 4. 7 |
| 63 V | 0516101 | 100.0 |
| | 0516220 | 22.0 |
| | 0516221 | 220.0 |
| | 0516331 | 330.0 |
| | 0516339 | 3. 3 |
| | 0516470 | 47.0 |
| | 0516479 | 4.7 |
| 75 V | 0519301 | 100.0 |
| | 0519302 | 220.0 |
| 100 V | 0529401 | 22. 0 |
| | 0519402 | 100.0 |
| | 0519403 | 2. 2 |
| | 0519404 | 10.0 |
| 18 V | 0519901 | 2200. 0 |
| 80 V | 0519902 | 47.0 |
| | 0519903 | 100.0 |
| | 0519904 | 220.0 |

w.v.

50 V

| 989 | Orange on | ly |
|-------|-----------|------|
| 10.0 | 0519001 | 25 V |
| 3. 3 | 0519002 | |
| 1.0 | 0519101 | 50 V |
| 3. 3 | 0519102 | |
| 0. 47 | 0519103 | |
| 1.5 | 0519104 | |
| 2. 2 | 0519105 | |
| 4.7 | 0519106 | |
| 6.8 | 0519107 | |
| 10.0 | 0519108 | |
| 0. 22 | 0519109 | |
| 0, 33 | 0519110 | |

6. OPERATION BLOCK DIAGRAM



7. TROUBLESHOOTING

| Symptom | | Cause |
|---|------------|---|
| 7-1. Troubles on Power Supply Section | | |
| 1-1. Opened AC circuitry on primary side of power transformer— | -2. -3. | Imperfect contact of power switch, S05 Power fuse, F701 open AC fuse, F881~F882 open Defective D607, D609, D611 or D613 on F-2554 Defective TR603 on F-2554 |
| 7-2. Troubles on Power Amplifier Section | | |
| 2-1. AC fuse, F881~F882 blown when switching power ON——— | L_2. | TR07~TR14 on F-2554 short TR05 or TR06 on F-2554 open |
| 2-2. Speaker fuse open | 3. | Speaker wires (+ and -side) shorted on speaker terminals Miss-connections of speaker wires |
| 2-3. Power amplifier section inoperative | 5. | Defective IC01, TR03 on F-2554 |
| 7-3. Troubles on Tone Control Section | | |
| 3-1. Tone control section inoperative | 1. | Defective TR07~TR10 on F-2554 |
| 7-4. Troubles on Equalizer Section | | |
| 4-1. Equalizer section inoperative ———————————————————————————————————— | 1. | Imperfect contact of selector switch, S01 Defective TR01~TR06 on F-2555 |

8. PACKIG LIST

| Parts No. | Stock No. | Description | |
|-----------|-----------|-------------------|--|
| 1 | 9116640 | Vinyl Cover | |
| 2 | 9027800 | Styloform Packing | |
| 3 | 9009050 | Carton Case | |
| 4 | 5996080 | Curl Stopper | |

9. ACCESSORY PARTS LIST

| Stock No. | Description |
|-----------|------------------------|
| 9209660 | Operating Instructions |
| 9237350 | Schematic Diagram |

